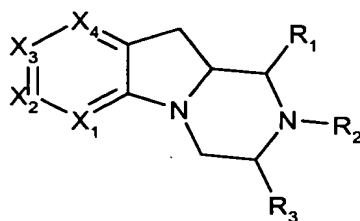


IN THE CLAIMS

C' 1. (Currently Amended) A pharmaceutical composition comprising a chemical compound of formula (I):



(I)

wherein:

R<sub>1</sub> to R<sub>3</sub> are independently selected from hydrogen and lower alkyl;

X<sub>1</sub> is ~~selected from N and C-R<sub>4</sub>~~;

X<sub>2</sub> is ~~selected from N and C-R<sub>5</sub>~~;

X<sub>3</sub> is ~~selected from N and C-R<sub>6</sub>~~;

X<sub>4</sub> is ~~selected from N and C-R<sub>7</sub>~~;

R<sub>4</sub>, R<sub>5</sub> and R<sub>7</sub> are independently selected from hydrogen, halogen, hydroxy, alkyl, aryl, alkoxy, aryloxy, alkoyl, aryloyl, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, alkylamino, dialkylamino, nitro, cyano, carboalkoxy, carboaryloxy and carboxy; and

R<sub>6</sub> is selected from hydrogen, halogen, alkyl, aryl, aryloxy, alkylthio, arylthio, alkylsulfoxyl, arylsulfoxyl, alkylsulfonyl, arylsulfonyl, amino, alkylamino, dialkylamino and cyano;

with the proviso that R<sub>4</sub> to R<sub>7</sub> are not all selected as hydrogen,  
or a pharmaceutically acceptable salt, or addition compound thereof; in  
combination with a pharmaceutically acceptable carrier or ~~excipient~~ excipient.

2. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein R<sub>1</sub> is selected from hydrogen and methyl.

C' 3. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_2$  is hydrogen.

4. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_3$  is selected from hydrogen and methyl.

5 - 8. (Cancelled)

9. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein two of  $R_4$ ,  $R_5$ ,  $R_6$  and  $R_7$  are hydrogen.

10. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 9, wherein  $R_4$  and  $R_6$  are hydrogen.

11. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein two of  $R_4$ ,  $R_5$ ,  $R_6$  and  $R_7$  are independently selected from hydrogen, chlorine, fluorine, trifluoromethyl and bromine.

12. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein three of  $R_4$ ,  $R_5$ ,  $R_6$  and  $R_7$  are hydrogen.

13. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 12, wherein  $R_4$ ,  $R_6$  and  $R_7$  are hydrogen.

14. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_4$  is hydrogen.

15. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_5$  is halogen.

16. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_6$  is hydrogen.

17. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1, wherein  $R_7$  is halogen.

18. (Currently Amended) A pharmaceutical composition ~~compound~~ according to claim 1 which is selected from:

C'

(*RS*) 7-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (*RS*) 9-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (*RS*) 7-chloro-8-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (10a*R*) 7-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (*RS*) 7-bromo-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (3*S*, 10a*R*) 8-chloro-2-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole,  
 (10a*R*) 8-chloro-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole and  
 (3*S*, 10a*R*) 8-chloro-2-methyl-1,2,3,4,10,10a-hexahydropyrazino[1,2-*a*]indole.

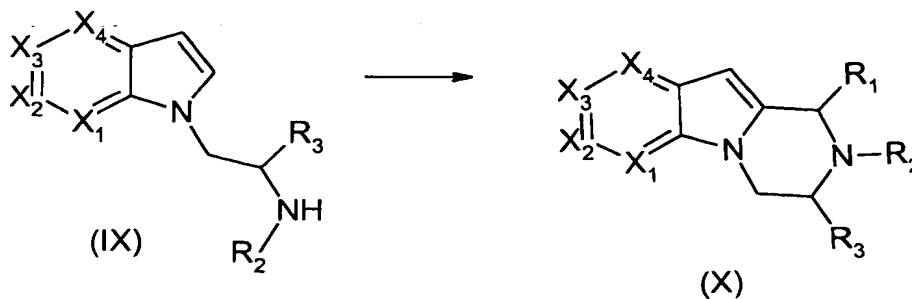
19 – 28. (Cancelled)

29. (Currently Amended) A method of treatment of obesity, comprising administering to a patient in need of such treatment an effective dose of a compound of formula (I) as set out in claim 1. ~~according to claim 21, wherein said disorder is obesity.~~

30 – 33. (Cancelled)

34. (Previously Amended) A process for the preparation of a compound of formula (I) according to claim 1, said process comprising the steps of:

(i) treating a compound of formula (IX) with an aldehyde of formula R, CHO and then exposing to acid to obtain a compound of formula (X), wherein X<sub>1</sub>, X<sub>2</sub>, X<sub>3</sub>, X<sub>4</sub>, R<sub>2</sub> and R<sub>3</sub> are as described in claim 1, and



(ii) reduction of a compound of formula (X).